KENWOOD

VZ907

IN-DASH 5.8-Inch WIDE MONITOR WITH CD PLAYER

INSTRUCTION MANUAL

GRAND ECRAN DE NAVIGATION DE 15cm AVEC LECTEUR CD

MODE D'EMPLOI

15cm-MONITOR MIT CD-SPIELER FÜR ARMATURENBRETT-EINBAU

BEDIENUNGSANLEITUNG

15cm-MONITOR MET CD-SPELER VOOR DASHBOARD INBOW

GEBRUIKSAANWIJZING

MONITOR MASK A SCOMPARSA DA 5.8" CON LETTORE DE CD

ISTRUZIONI PER L'USO

AMPLIO MONITOR DE 5.8" PULGADAS PARA SALPICADERO CON LECTOR DE CD

MANUAL DE INSTRUCCIONES

KENWOOD CORPORATION

COMPACT disc DIGITAL AUDIO

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The control screens shown in this manual are for explanation purposes only. The actual screens and design differ.

Safety Precautions

⚠ WARNING

To prevent injury and/or fire, take the following precautions:

- Ensure that the unit is securely installed. Otherwise it may fly out of place during collisions and other jolts.
- When extending the ignition, battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 0.75mm² (AWG18) or more to prevent cable deterioration and damage to the cable coating.
- To prevent short circuits, never put or leave any metallic objects (e.g., coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal.

  If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

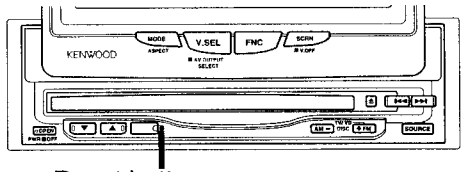
⚠ CAUTION

To prevent damage to the machine, take the following precautions:

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not open the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To prevent short circuits when replacing a fuse, first disconnect the wiring harness.
- During installation, do not use any screws except for the ones provided. The use of improper screws might result in damage to the main unit.
- You cannot view video pictures while the vehicle is moving. To enjoy video pictures, find a safe place to park and engage the parking brake.

NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit does not seem to be working right, try pressing the reset button first. If that does not solve the problem, consult your Kenwood dealer.



Reset button

- We strongly recommend the use of the Code Security function (see p.12) to prevent theft.

English

Safety Precautions

Cleaning the Unit

If the front panel gets dirty, turn off the power and wipe the panel with a dry silicon cloth or soft cloth.

⚠CAUTION

Do not wipe the panel with a stiff cloth or a cloth dampened by volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or remove the indicator letters.

The marking of products using lasers (Except for some areas)

CLASS 1
LASER PRODUCT

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

Cleaning the CD Slot

As dust can accumulate in the CD slot, clean it occasionally. Your CDs can get scratched if you put them in a dusty CD slot.

Lens Fogging

Right after you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, CDs may be impossible to play. In such a situation, remove the disc and wait for the condensation to evaporate. If after the condensation has evaporated the unit still does not operate normally, consult your Kenwood dealer.

Screen brightness during low temperatures

When the temperature of the unit falls such as during winter, the liquid crystal panel's screen will become darker than usual. Normal brightness will return after using the monitor for a while.

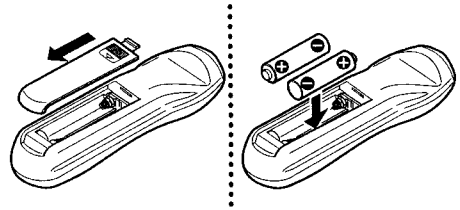
Loading and Replacing the Batteries for the Remote

⚠CAUTION

Do not set the remote on hot places such as above the dashboard.

Loading and Replacing the Batteries

1. Use two LR03 batteries.
   Slide the cover while pressing downwards to remove it as illustrated.
2. Insert the batteries with the ⊕ and ⊖ poles aligned properly following the illustration inside the case.



⚠WARNING

Store unused batteries out of the reach of children. Contact a doctor immediately if the battery is accidentally swallowed.

NOTE

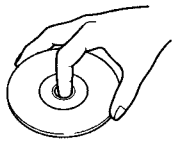
- The provided batteries are intended for use in operation checking, and their service life may be short.
- When the remote controllable distance becomes short, replace both of the batteries with new ones.

Handling Compact Discs

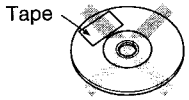
Playing a CD that is dirty, scratched or warped can cause the sound to skip and the unit to operate incorrectly, resulting in worsened sound quality. Take the following precautions to prevent your CDs from getting scratched or damaged.

Handling CDs

- Do not touch the recorded side of the CD (i.e., the side opposite the label) when holding it.



- Do not stick tape on either side of the CD.

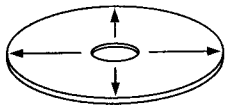


Storing CDs

- Do not store CDs in areas exposed to direct sunlight – such as a car seat or above the fascia panel (dashboard) – or other hot places.
- If you will not be using the unit for a long period of time remove the CDs from the unit and put them back in their cases. Do not stack CDs that have been removed from their cases or prop them against something.

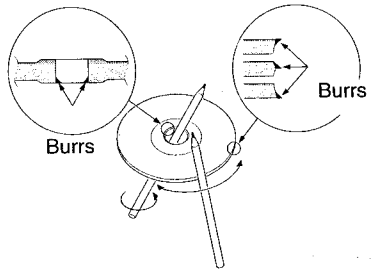
Cleaning CDs

If a CD has become dirty, wipe it off gently using a commercially available cleaning cloth or a soft cotton cloth, starting from the centre of the disc and moving outward. Do not clean CDs with conventional record cleaners, anti-static formulas, or chemicals such as paint thinner or benzene.



Checking New CDs for Burrs

When playing a new CD for the first time, check that there are not any burrs stuck to the perimeter of the disc or in the central hole. CDs with burrs stuck on them may not load properly or may skip whilst playing. Remove burrs using a ballpoint pen or a similar utensil.

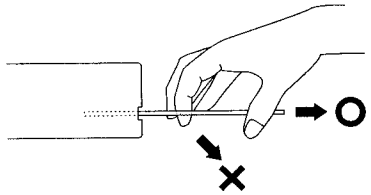


Do Not Load CD Accessories in Slot

Do not use commercially available CD accessories that can be loaded into the CD slot, such as stabilisers, protective sheets, or CD cleaning discs, since they can cause the unit to malfunction.

Removing the CD

Only remove the CD from the machine in a horizontal direction. You may damage the surface of the CD if you try pulling it down as it ejects.



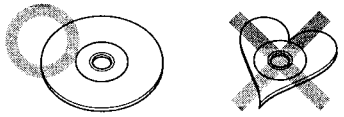
⚠CAUTION

Do Not Load 8-cm (3-in.) CDs in the CD slot

If you try to load an 8-cm CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

Do Not Use Special Shape CDs

- Be sure to use round shape CDs only for this unit and do not use any special shape CDs. Use of special shape CDs may cause the unit to malfunction.

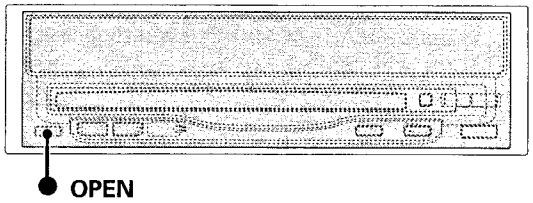


- Be sure to use CDs with disc mark only for this unit.

English

Visual Function

Monitor Open/Close



Opening the Monitor:

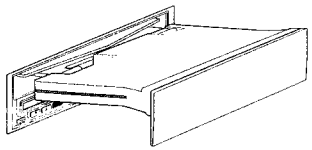
1 Set the vehicle's parking brake.

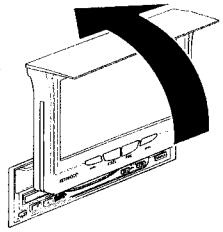
2 Press the OPEN button. The monitor opens.

⚠CAUTION

The gear shift lever or other parts may interfere with the monitor when it opens. If so, move the gear shift lever (being sure to do so safely) before operating the set. (The monitor is drawn back in automatically if it cannot be opened normally due to an obstacle.)

3 Once the monitor is fully out, lift it by hand and set it to an easily visible angle.



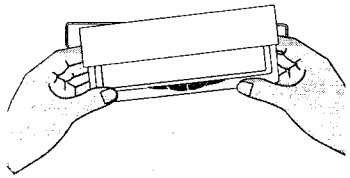


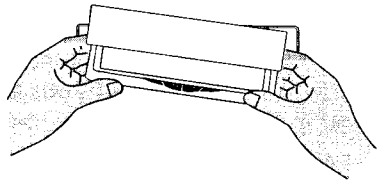
NOTE

- The monitor cannot be opened unless the parking brake is set.
- The monitor is drawn back in automatically if it is not lifted in the 15 seconds after it is opened.

Adjusting the Left/Right Angle:

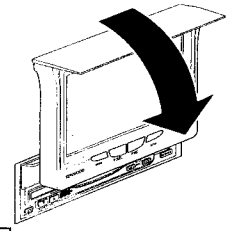
Grasp both the sides of the monitor and set it to an easily visible angle.

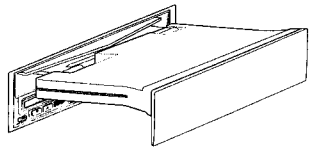




Closing the Monitor:

Set the left/right angle to the center then lower the monitor so that it is completely flat. The monitor is then drawn in automatically after 2 seconds.





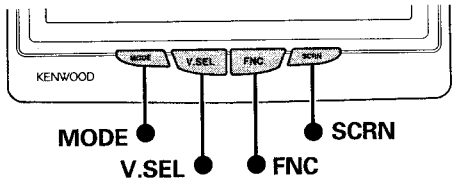
NOTE

- The monitor will not be drawn in automatically if is lowered before setting the left/right angle to the center. In this case, press the OPEN button. The monitor is drawn in.
- The monitor is not drawn in while CDs are being ejected.
- The monitor can be closed even if the power is off.
- The position to which the monitor slides when the power is turned on can be set. (Refer to the screen control menu on (page 6.)
- If the power is turned off then back on while the monitor is open, the slide mechanism operates for several seconds in order to detect the initial position.

Power Off

Press the OPEN button for over 1 second to turn the set's power off.

Press the OPEN button to turn the power on.



Switching Monitor's Picture

The monitor's picture switches as shown below each time the V.SEL button is pressed.
Video 1 or Video 2 ⇔ Navigation

⚠CAUTION

You cannot view video pictures while the vehicle is moving. To enjoy video pictures, find a safe place to park and engage the parking brake.

Switching AV Output Picture

The AV output picture switches as shown below each time the V.SEL button is pressed for over 1 second. (The current setting is displayed when the picture is switched.)

NORMAL:Picture selected from the video control menu(page 26)
▼
VIDEO 1 :Picture input to the AV-IN1 terminal
▼
VIDEO 2:Picture input to the AV-IN2 terminal

NOTE

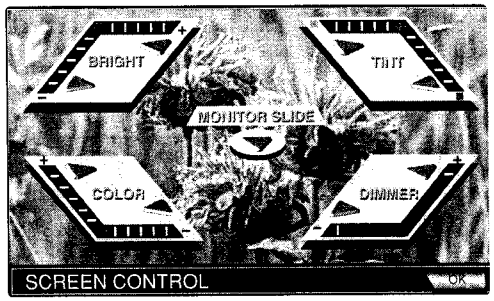
When the A907 is connected, the sound of the AV output also switches.

Turning Monitor's Picture Off

Press the SCRN button for over 2 seconds to turn the monitor's picture off.

NOTE

The picture reappears when a button on the monitor panel is pressed, when the monitor is lowered then lifted again, and when the engine key is removed then reinserted.



Switching Screen Control Screen

Pressing the SCRN button will cause the screen control screen (screen adjustment mode) to be displayed on the video screen.

Adjusting Picture Quality:

[BRIGHT] [▲](+) : The screen gets brighter.
[▼](—): The screen gets darker.

[COLOR][▲](+) : The screen colour gets paler.
[▼](—) (deeper): The screen colour gets deeper.

[TINT][▲](red) : Red is intensified. [▼](green): Green is intensified.

[DIMMER] This can be adjusted to any one of three levels.
[▲](+): The screen gets brighter. [▼](—): The screen gets darker.

Adjusting Slide Position:

[MONITOR SLIDE] This can be adjusted to two positions.
[▼]: The monitor to front. [▲]: The monitor to back.

Canceling Screen Control Screen:

Touch the [OK] .

NOTE

- The colour and tint cannot be adjusted for the navigation screen or the graphic screens (source control, etc.).
- The dimmer cannot be adjusted when the vehicle's lights are off or when the illumination cable is not connected.
- Separate picture quality settings can be stored for the video 1,video 2 and navigation screens and for day and night.

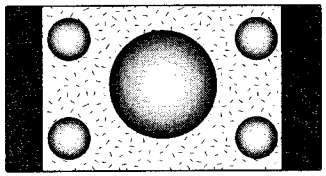
English

Visual Function

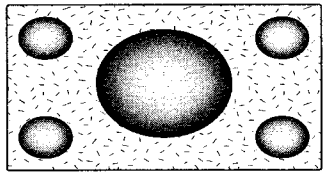
Switching Picture Mode (for video picture)

The picture mode switches between normal, full, just and zoom each time the MODE button is pressed.

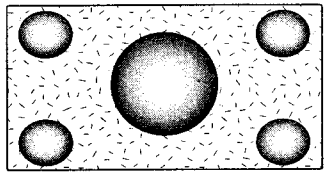
• Normal mode



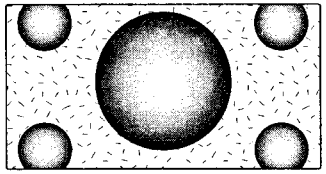
• Full mode



• Just mode



• Zoom mode



Switching Menu Screen

When using for the first time, the menu screen appears when the FNC button is pressed.

Switching Set Up Screen:
Touch the [SET UP] to switch the system set up screen. <see p.9>

Switching Audio Control Screen: (with A907)
Touch the [AUDIO] to switch the audio setting screen. <see p.8>

Switching Source Control Screen:
Touch the character to switch the source control screen as follows:

: Touch this character to switch the FM/AM tuner mode control screen.<see p.14> (with A907)

: Touch this character to switch the CD mode control screen. <see p.21>

: Touch this character to switch the disc changer mode control screen.<see p.21> (with C907)

: Touch this character to switch the video mode control screen.<see p.26>

: Touch this character to switch the standby mode screen.

The character for the currently selected source is displayed in light blue.

NOTE

- Up to two disc changers can be operated. (When two disc changers are connected, they must be switched with the disc changer 1-2 switch.)
- When a disc is ejected, a net appears over the source mark and the mark cannot be operated.

Canceling the Menu Screen:
When [RTN] is touched, the picture switches to the current control screen for the current source.

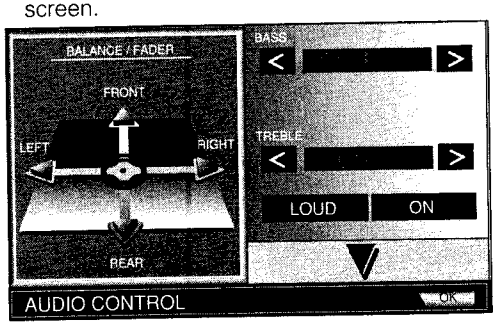
Audio Control Function *(with A907)*

Adjusting Audio

Adjust various parameters of sound quality.

Switching Audio Control Screen:

Touch the [AUDIO] on the menu screen to switch the audio control screen.



Switching Setting Lists:

Touch the [▼] or [▲] to switch the audio control lists.

Adjusting Balance and Fader Levels:

- Each time you touch the [◄](LEFT), Left channel emphasized.
- Each time you touch the [►](RIGHT), Right channel emphasized.
- Each time you touch the [▲](FRONT), Front channel increased.
- Each time you touch the [▼](REAR), Rear channel increased.

Adjusting Bass Level:

- Each time you touch the [<], Bass decreased.
- Each time you touch the [>], Bass increased.

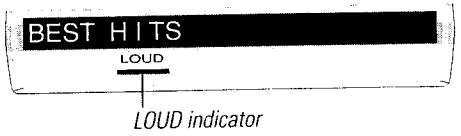
Adjusting Treble Level:

- Each time you touch the [<], Treble decreased.
- Each time you touch the [>], Treble increased.

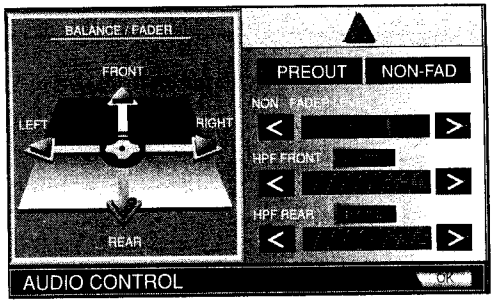
Turning Loudness On/Off:

This function amplifies low and high tones when the volume is turned down. The LOUD indicator is displayed on the source control screen , when the loudness function is on.

Touch the [LOUD] to switch the loudness on " ON " and off " OFF ".



LOUD indicator



Setting Preout:

Touch the [PREOUT] to switch the non-fading preout " NON-FAD " and Rear preout " REAR ".

Adjusting Non-Fading Preout Level:

- Each time you touch the [<], The front and rear sound decreased.
- Each time you touch the [>], The non-fading sound increased.

Setting High-Pass Filter for Front and Rear Output:

Each time you touch the [<] or [>] ,You can select the frequency to be cut, as follows:

THROU (through) ⇄ 40Hz ⇄ 60Hz ⇄ 80Hz ⇄

220Hz ⇄ 180Hz ⇄ 150Hz ⇄ 120Hz ⇄ 100Hz ⇄

Ending Audio Control Screen:

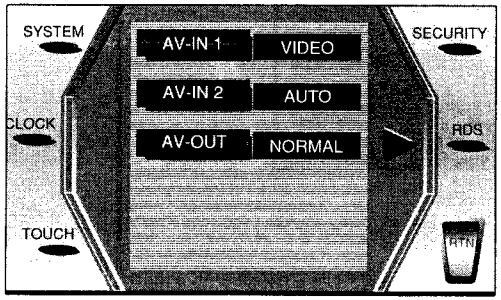
Touch the [OK] to return the menu screen.

System Set Up Function

Setting System

Switching System Setting Screen:

Touch the [SET UP] on the menu screen to switch the system setting screen.



Switching Setting Lists:

Touch the [◄] or [►] to switch the setting lists.

AV Input 1 Setting:

When [AV-IN1] is touched, the AV IN 1 terminal's input setting switches between "NAV" and "VIDEO".

NOTE

If a navigation unit is connected to AV IN1, be sure to set it to " NAV ".

AV Input 2 Setting:

When "AV-IN2" is touched, the AV IN 2 terminal's input setting switches between "AUTO" and "MANUAL".
When set to "AUTO", the monitor's picture automatically switches to video 2 when video signals are input to the AV IN 2 terminal, and returns to the previous picture when no more video signals are input.

NOTE

The auto function will not work if the V.SEL or other buttons are operated and another picture is selected while this function is on. (The previous picture will not reappear when no more video signals are input.)

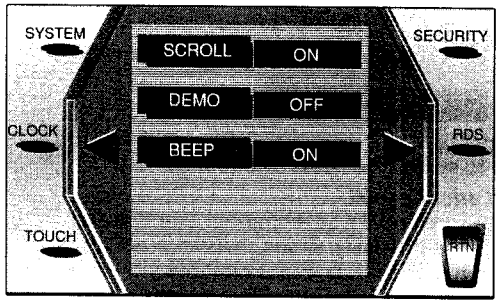
Setting AV Output Visual:

Touch the [AV-OUT], the video of the AV output terminal will be switched as follows.

NORMAL :Picture selected at the video control screen (page 26)
▼
VIDEO 1 :Picture input to the AV-IN1 terminal
▼
VIDEO 2 :Picture input to the AV-IN2 terminal

NOTE

When the A907 is connected, the sound of the AV output also switches.



Setting Auto Scroll Display Function:

This function permits the text to be scrolled and the entire text to be displayed. Switching between manual scrolling and automatic scrolling is permitted. The factory default is automatic scrolling.

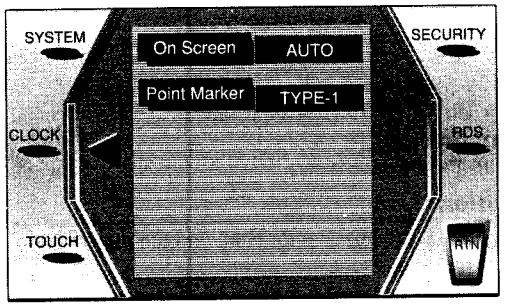
Touch the [SCROLL] to switch the CD text scroll setting auto " ON " and manual " OFF ".
" ON " : Automatic scrolling
" OFF " : Manual scrolling

Setting Touch Sensor Tone :

Touch the [BEEP] to switch the beep sound setting on " ON " and off " OFF ".

Setting Demonstration Function:

Touch the [DEMO] to switch the demonstration mode on " ON " and off " OFF ".
When set to "ON", the graphic screen's background mode switches repeatedly.

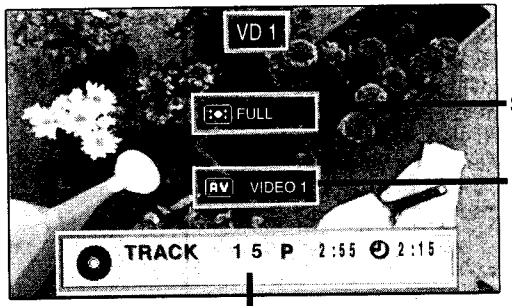


Setting On Screen Display Function:

Touch the [On Screen] to switch the on screen function auto " AUTO " and manual " MANUAL ".

" AUTO " :When a button on the main unit or remote control unit is operated or if the lower center of the screen is touched while a video picture is displayed, the audio source, picture settings, video out settings, etc., are temporarily superimposed on the picture.

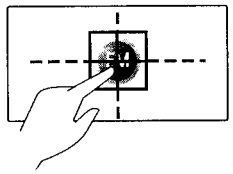
" MANUAL " :If the lower center of the screen is touched while a video picture is displayed, the audio source, picture settings, video out settings, etc., are superimposed on the picture. The display turns off when the lower center of the screen is pressed again.



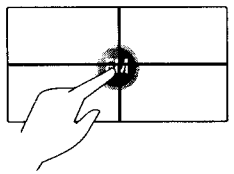
Setting the Pointer Display Function:

When the graphic screen is touched, the pointer display setting switches between "TYPE-1", "TYPE-2" and "OFF" (no pointer is displayed) each time [Point Marker] is touched.

Pointer TYPE-1



Pointer TYPE-2



Ending System Setting Screen:

Touch the [RTN] to return the menu screen.

English

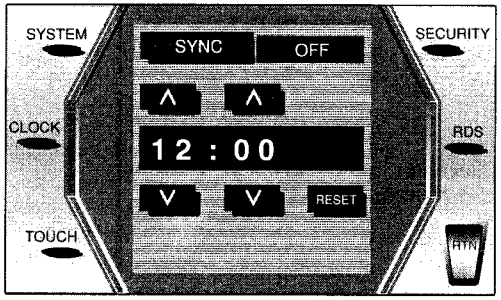
System Set Up Function

Adjusting Time

With automatic time adjustment, you can set the clock time automatically according to time data sent from RDS stations (after receiving RDS signals for several minutes). You can also set the time manually if the automatic time adjustment function is turned off. The factory default is automatic time adjustment.

Switching Time Adjustment Screen:

Touch the [CLOCK] on the system setting screen to switch the time adjustment screen.



Turning Automatic Time Adjustment On/Off:

Touch the [SYNC] to switch the automatic time adjustment on " ON " and off " OFF ".

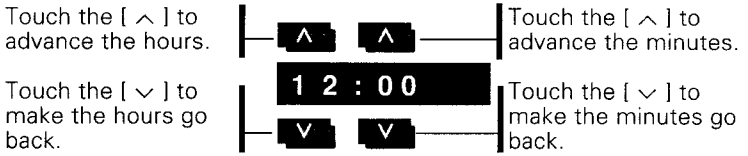
Adjusting Time Automatically:

Tune into an RDS station for 3 or 4 minutes.
The time adjusts automatically to the correct local time.

NOTE

The time is not adjusted when the RDS station you are tuned to be not transmitting a time signal. Choose another RDS station in such a case.

Adjusting Time Manually:


Touch the [∧] to advance the hours.
Touch the [∧] to advance the minutes.
12 : 00
Touch the [∨] to make the hours go back.
Touch the [∨] to make the minutes go back.

Setting the Minutes to "00":

Touch the [RESET] to set the minutes to "00".

NOTE

Touch the [RESET] while the minute is below "30" rounds it off, and while the minute is "30" or more rounds it up.

Ending Time Adjustment Screen:

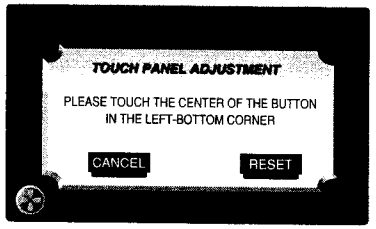
Touch the [RTN] to return the menu screen.

Adjusting Touch Position

The touch panel can be adjusted if the position touched and the operation performed do not match.

Switching Touch Panel Adjustment Screen:

Touch the [TOUCH] on the system setting screen to switch the touch panel adjustment screen.



Adjusting Touch Position:

Accurately touch the mark at the lower left and the mark at the upper right, following the instructions in the messages.
When the mark at the upper right is touched, the adjustment is completed and the system setup screen reappears.

NOTE

- If [CANCEL] is touched without touching the button at the lower left, the adjustment is canceled and the screen that was set before switching to the adjustment screen reappears.
- If [CANCEL] is touched after touching the button at the lower left, the button at the lower left reappears.
- If [RESET] is touched, the settings are reset to the factory defaults and the system setting screen reappears.

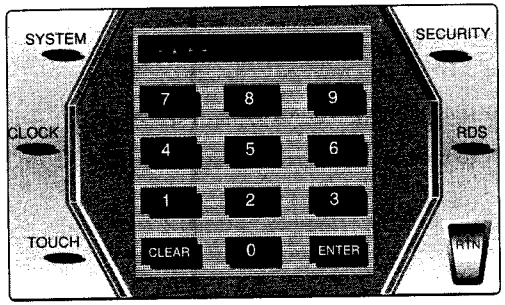
Code Security Function

After a security code has been registered, power cannot be restored if the battery is disconnected from the unit unless the code is first input.

NOTE

All the steps in this procedure (1through 5) must be completed before the code security function can be turned on. However, once the procedure is finished, it need not be repeated.

1 Touch the [SECURITY] for three seconds or more on the system setting screen to switch the security code input screen.
" ENTER " and " CODE " is displayed.



2 Touch the number [1 - 0] and enter your security code.

NOTE

If you enter the wrong number, touch [CLEAR].The last entered number is cleared.

3 Touch the [ENTER] for three seconds or more.
The security code will be set.
" RE-ENTER " will appear in the display for one second, asking you to enter the code once again for confirmation.
When " CODE- " appears in the display, you can start inputting the code.

4 Touch the numer [1 - 0] and enter your security code again.

5 Touch the [ENTER] again for three seconds or more.
" APPROVED " will appear in the display, with the code security function turning on. From this point on, if the unit is disconnected from the battery, the security code must be entered the first time that the unit's power is turned on.
" ENTER " and " CODE- " will appear in the display, asking you to input the code.

NOTE

If you input an incorrect security code, the display ask you once more to input the correct one. Follow the procedure in step 2 above.

If you press the RESET button or remove the battery:

The first time you turn the unit on again," ENTER " " CODE- " and will appear in the display, asking you to input the security code. Repeat steps 4 and 5 above, and input the security code. You can start operating the unit again when " APPROVED " appears in the display.

NOTE

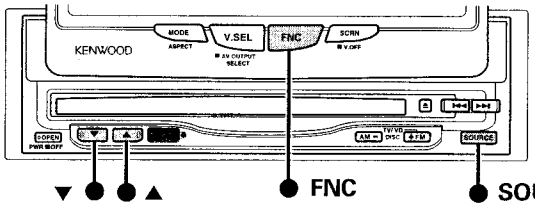
If you enter the wrong code, " WAITING " is displayed and you cannot make further input of the code for a fixed interval (see table below), which grows longer each time you enter the wrong code. When " CODE- " is displayed, you can make input again.

Number of wrong inputs	Interval until next input is allowed
1	-
2	5 minutes
3	1 hour
4	24 hours

English

Basic Source Control Function

Basic operations with the buttons



Switching Source Modes

Each time you press the SOURCE button, the mode switches as follows:

Tuner mode (with A907)
▼
CD mode
▼
Disc changer mode (with C907)
▼
VIDEO mode
▼
Standby mode (All off mode)

NOTE

- The mode switches to the next mode from any mode which cannot be used.
- When two disc changers are connected to the unit, the disc changer mode above is split into two modes: disc changer mode 1 and disc changer mode 2.

Increasing Volume

Press the ▲ button to increase the volume.

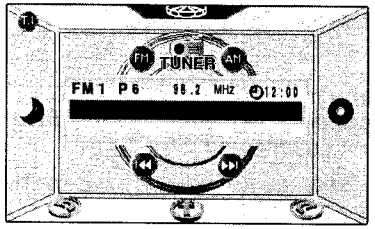
Decreasing Volume

Press the ▼ button to decrease the volume.

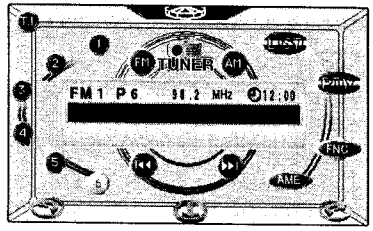
Changing Back Picture

Each time you press the FNC button , the back picture mode changing seven patterns in the source control screen and menu screen.

Basic operations with the source control screens



❑ *Source Control Screen (A)*



❑ *Source Control Screen (B)*

Switching Source Control Screen A and B

Touch the character to switch the source control screen as follows:

: Touch this character to switch the source control screen(B).

: Touch this character to switch the source control screen(A).

NOTE

Source control screen (B) has more operable functions than source control screen (A). The following explanations are for source control screen (B).

: Touch this character to switch the next source mode control.

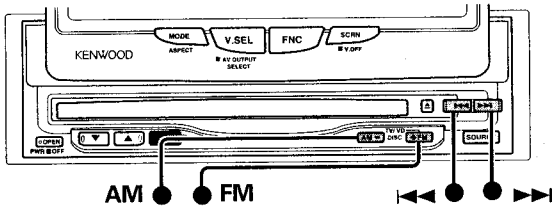
: Touch this character to switch the previous source mode control.

Switching Menu Screen

: Touch this character to switch the menu screen.

TUNER Control Function

Tuner operations with the buttons



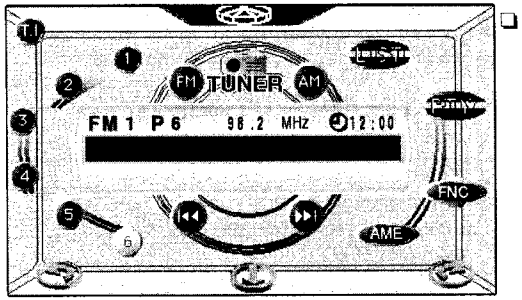
Selecting Bands

Press either the FM or AM button to select the band.
Each time you press the FM button, the band switches between the FM1, FM2 and FM3.
Press the AM button to select the MW and LW bands.

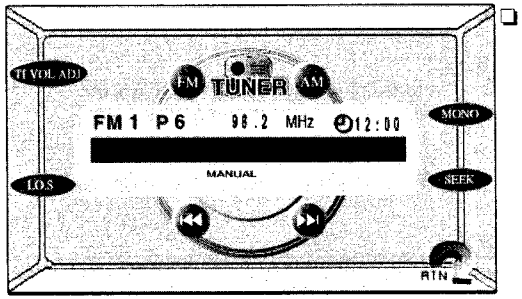
Tuning

- Auto Seek Tuning
  Press the ►►I button to seek increasing frequencies.
  Press the I◄◄ button to seek decreasing frequencies.
- Press station seek tuning
  Touch the ►►I button to move to the next preset station (the one with the next highest number), and the I◄◄ button to move to the last preset station (the one with the next lowest number).
- Manual Tuning
  Press the ►►I button to increase the frequency by one step.
  Press the I◄◄ button to decrease the frequency by one step.

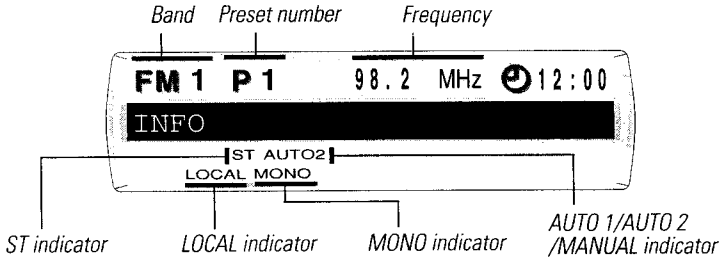
Tuner operations with the control screens



❑ ***Source Control Screen(B)***



❑ ***Function Control Screen***



English

TUNER Control Function

Selecting Bands

Touch either the [FM] or [AM] to select the band.
Each time you touch the [FM] , the band switches between the FM1, FM2 and FM3.
Touch the [AM] button to select the AM and LW bands.

Tuning

- Auto Seek Tuning (AUTO1)
  Touch the [▶▶I] to seek increasing frequencies.
  Touch the [I◀◀] to seek decreasing frequencies.
- Preset station Seek Tuning (AUTO2)
  Touch the [▶▶I] to move to the next preset station (i.e., the one with the next highest number), and the " I◀◀ " to move to the last preset station (i.e., the one with the next lowest number).
- Manual Tuning (MANUAL)
  Touch the [▶▶I] to increase the frequency by one step.
  Touch the [I◀◀] to decrease the frequency by one step.

NOTE

The ST indicator displayed when stereo broadcasts are being received.

Station Preset Memory

Store the frequency of the station currently being listened to. You can then recall that station with a single touch of a button.

1 Select the band/ station that you want to have stored.

2 Hold down preset station number [① - ⑥] that you want to use for the station, for two seconds or more.

Recalling a Preset Station:

Touch the preset station number [① - ⑥] for the desired station. The number of the recalled station is displayed.

NOTE

You can store 6 stations in each of the FM1, FM2, FM3, and AM (MW and LW) bands.

Auto Memory Entry

You can automatically store all the receivable frequencies in the band currently being listened to, and then recall them with the touch of a button later. This function is especially useful when you are travelling and do not know what stations are available. Up to 6 frequencies can be stored this way.

1 Select the band for auto memory entry.

2 Touch the [AME].
The colour of the [AME], [▶▶I] and [I◀◀] will change from blue to pink

3 Touch the [▶▶I] or [I◀◀] to start auto memory entry.
The preset station number [① - ⑥] are shown in order.
When all the stations in a certain band are stored in the preset memory, the auto memory entry stops. The tuner then plays the last station received.

Recalling a Preset Station:

Touch the preset station number [① - ⑥] for the desired station. The number of the recalled station is displayed.

NOTE

- When the AF function is turned on whilst auto memory entry takes place, only RDS stations (i.e., stations with RDS capability) are stored. RDS stations that have been preset for FM1 cannot also be preset in FM2 or FM3.
- When the local seek function is turned whilst auto memory entry takes place, stations with poor reception are not stored.
- When the Traffic Information function is on , only the local traffic information station frequency will be stored.

Function Control Screen

Switching Function Control Screen:

Touch the [FNC] on the source control screen (B) to swicth the function control screen.

Selecting Tuning Mode:

You can choose from three tuning modes: auto seek, preset station seek, and manual. The "AUTO1" indicator is displayed when auto seek tuning is selected, and the "AUTO2" indicator is displayed when preset station seek tuning is selected.

Each time you touch the [SEEK], the mode switches as follows.

AUTO 1 (Auto Seek Tuning)
▼
AUTO 2 (Preset Station Seek Tuning)
▼
MANUAL (Manual Tuning)

Turning Local Seek Function On/Off:

With the local seek function turned on, auto seek tuning skips stations with relatively poor reception.

Touch the [LO.S] to switch the local seek function on and off. The LOCAL indicator is displayed when the local seek function is on.

Turning Monaural Reception On/Off:

When poor stereo reception is experienced, this function will reduce noise and improve listening conditions.

Touch the [MONO] to switch the monaural reception on and off. The MONO indicator is displayed when monaural reception is on.

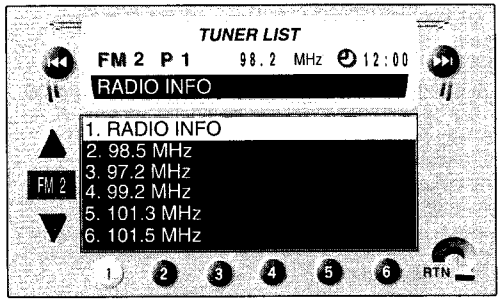
Returning Source Control Screen:

Touch the [RTN] to return the source contorl screen (B).

Tuner List Screen

Switching Tuner List Screen:

Touch the [LIST] on the source control screen(B) to switch the tuner list screen.



Selecting Band List:

Each time you touch the [▼] or [▲], the list switches between the FM1, FM2, FM3 and AM(MW/LW).

Selecting List:

Touch the preset station number [① - ⑥] for the desired station. The number of the recalled station is displayed.

Returning Source Control Screen:

Touch the [RTN] to return the source contorl screen (B).

RDS Control Function

RDS (Radio Data System)

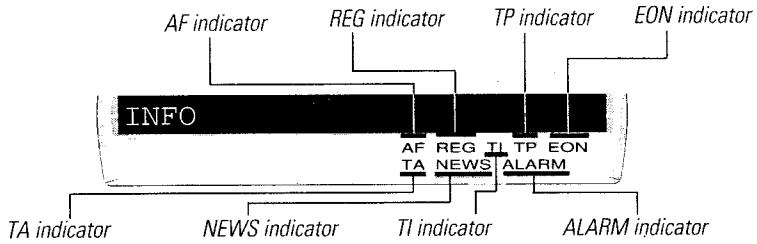
RDS is a digital information system that lets you receive signals besides those of regular radio programmes, such as network information being transmitted from radio stations.
When listening to an RDS station (ie, a station with RDS capability), the programme service name of the station is displayed along with the frequency, advising you quickly which station is being received.
RDS (Radio Data System) stations also transmit frequency data for the same station. When you are making long trips, this function automatically switches to the particular frequency with the best reception for the particular network of stations that you want to listen to. The data is automatically stored, allowing you to switch quickly to another RDS stations, broadcasting the same programme, that has better reception. These include stations stored in the station preset memory that you often listen to.

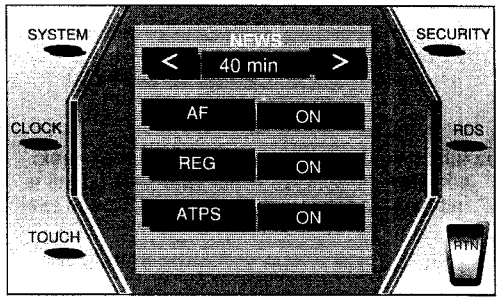
EON (Enhanced Other Network)

Stations that offer EON also transmit information about other RDS stations that have traffic information. When you are tuned to a station that is not transmitting traffic information, but another RDS station starts transmitting a traffic bulletin, the tuner automatically switches to the other station for the duration of the bulletin.

Alarm

When an emergency transmission (announcing disasters, etc.) is sent, all current functions are interrupted to allow the warning to be received.





Switching the RDS Setting Screen

1 Touch the [SET UP] on the menu screen to switch the system setting screen.

2 Touch the [RDS] to switch the RDS setting screen.

News Bulletin Function with PTY News Timeout Setting

You can arrange to have news bulletins interrupt your current listening source, including other radio stations. When the News Bulletin function is on, the PTY News Timeout setting allows you to set the interval during which further news interruption cannot take place. You can adjust the PTY news interruption period from 10 to 90 minutes for each journey.

Changing the Function Setting:

Touch the [<] or [>] repeatedly until the desired setting is displayed.
Touch the [>] to increase the interval, and the [<] to decrease it.
OFF ↔ 00min ↔ 10min ↔ 20min ↔ 30min ↔ 40min ↔ 50min ↔ 60min ↔ 70min ↔ 80min ↔ 90min (min= minutes)
When you select the news interruption timeout interval, the News function turns on and the NEWS indicator is displayed.
When a news bulletin is received, the colour of the NEWS indicator will change from black to pink and reception will begin at the preset volume.

NOTE

- If you choose the " 20min " setting, further news bulletins will not be received for 20 minutes once the first news bulletin is received. Setting the interval at the "00min" factory default indicates no News Timeout will be made, meaning that additional news bulletins will

continue to be searched for.
- This function is only available if the desired station sends PTY-code for news bulletin or belongs to EON-Network sending PTY-code for news bulletin.

AF (Alternative Frequency) Function

When poor reception is experienced, automatically switch to another frequency broadcasting the same programme in the same RDS network with better reception.
The AF indicator is displayed when the AF function is turned on.

Turning AF Function On/Off:
Touch the [AF] to switch the AF function on " ON " and off " OFF ".

NOTE

When no other stations with stronger reception are available for the same programme in the RDS network, you may hear the incoming broadcast in bits and snatches. Turn off the AF function in such a case.

Restricting RDS Region (Region Restrict Function)

You can choose whether or not to restrict the RDS channels, received with the AF function for a particular network, to a specific region. When the Region Restrict Function is on, the region is restricted and the REG indicator is displayed.

Turning Region Restrict Function On/Off:
Touch the [REG] to switch the Region Restrict Function on " ON " and off " OFF ".

NOTE

Sometimes stations in the same network broadcast different programmes or use different programme service names.

Auto TP Seek Function

When the TI function is on and poor reception conditions are experienced when listening to a traffic information station, another traffic information station with better reception will be searched for automatically. This function is on, when unit is first powered on.

Turning Auto TP Seek Function On/Off:
Touch the [ATPS] to switch the Auto TP Seek Function on " ON " and off " OFF ".

Traffic Information Function

You can listen to traffic information. If you are listening to discs, they will continue playing until a traffic bulletin is broadcast.

Turning TI function On/Off:
Touch the [TI] on the source control screen to turn the function on and off.
When the function is on, the TI indicator is turned on.
When a traffic information station is being received, the TP indicator will turn on. When none is being received, the colour of TI indicator will change from black to pink.
When a traffic bulletin begins to be broadcast, the colour of TA indicator will change from pink to black and reception will begin at the preset volume.
If you are listening to a disc when a traffic bulletin begins, they will automatically be turned off. When the bulletin ends or poor reception is experienced, the disc will begin playing again.

Switching to a Different Traffic Information Station:
Use the [⏮] / [⏭] to make an auto seek of the TI stations in a certain band.

NOTE

- When you are listening to a disc, you cannot change to another TI station.
- When the auto TP seek function is turned on and reception starts to weaken, the tuner automatically seeks stations with better reception.
- If you are tuned to a station that is not a traffic information station itself but which provides EON services, you can still have traffic information received.

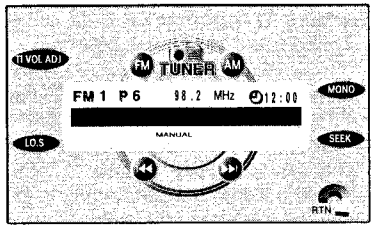
Ending RDS Setting Screen:
Touch the [RTN] to return the menu screen.

English

RDS Control Function

Presetting Volume for Traffic Information/News

Preset the volume to be used when traffic information starts to be broadcast.



1 Touch the [FNC] on the control screen (B) to switch the function control screen.

2 Tune into the station for which you want to set the volume.

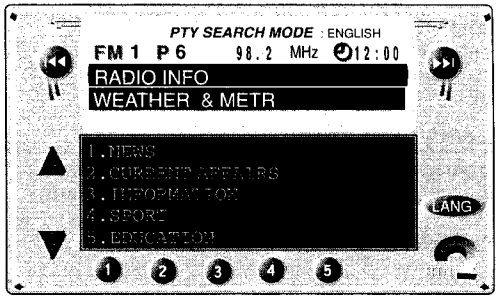
3 Adjust the volume to the desired level.

4 Touch the [TI VOL ADJ] for two seconds or more.

The volume level that the data has been stored.
Future traffic information broadcasts are heard at the preset level.

NOTE

- The volume cannot be lowered by this function during tuner reception. The volume is only set when it is louder than the listening volume of the tuner.
- You can arrange only to listen to traffic information bulletins with at preset volume with the volume set at minimum.



Programme Type (PTY) Function

Conduct auto seek tuning only on those stations with selected kinds of programmes.

Switching Programme Search Screen:

Touch the [PTY] on the source control screen (B).

NOTE

You cannot use this function whilst the traffic information function is turned on.

Changing the Display Language to French or German :

In the PTY mode, Touch the [LANG] to display the name of the language currently used.

Select the type of programme to be received::

1 Touch either the [▼] or [▲] repeatedly to select the type of programme lists you want to listen to.

2 Touch [① - ⑤] to select the type of programme.

Programme Type Display

News	News	S
Current Affairs	Current Affairs	S
Information	Information	S
Sport	Sport	S
Education	Education	S
Drama	Drama	S
Cultures	Cultures	S
Science	Science	S
Varied Speech	Varied Speech	S

Pop Music	Pop Music	M
Rock Music	Rock Music	M
M.O.R Music	M.O.R Music	M
Light Classics Music	Light Classics M	M
Serious Classics	Serious Classics	M
Other Music	Other Music	M
Weather& Metr	Weather& Metr	S
Finance	Finance	S
Children's Progs	Children's Progs	S
Social Affairs	Social Affairs	S
Religion	Religion	S
Phone In	Phone In	S
Travel & Touring	Travel & Touring	S
Leisure & Hobby	Leisure & Hobby	S
Jazz Music	Jazz Music	M
Country Music	Country Music	M
National Music	National Music	M
Oldies Music	Oldies Music	M
Folk Music	Folk Music	M
Documentary	Documentary	S
All Music	All Music	—
All Speech	All Speech	—

(S: Speech, M: Music)

Select the type of Seeking the selected programme type

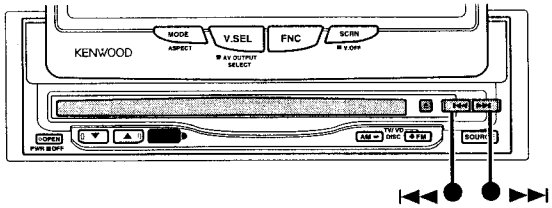
Touch the " ⏮ " or " ⏭ " to make a seek of frequencies with your selected type of programme.
If your selected type of programme is found, the name of the station is displayed and the station is tuned into.

Canceling PTY Search Screen:

Touch the [RTN] to return the source contorl screen (B).

Disc Control Function

CD / Disc changer operations with the buttons



Inserting CDs

Holding the CD with the labeled side facing up, insert it in the CD slot. The CD will start playing.

⚠CAUTION

- When inserting a CD, be careful that the CD does not touch the bottom of the monitor or the mechanism. If it does, it may be scratched.
- Do not attempt to insert a CD into the slot if another one is already there.
- The unit can only play 12-cm (5-inch) CDs. If you insert an 8-cm (3-inch) CD, it will get stuck inside and can cause the unit to malfunction.

Track Search

Making a Forward Track Search:

Press the ⏭ button to display the desired track number.
Press once to fast forward to the next track, twice to fast forward to the track after that, and so forth.
Play starts at the beginning of the displayed track number.

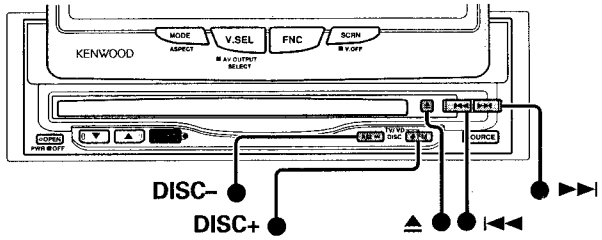
Making a Reverse Track Search:

Press the ⏮ button to display the desired track number.
Press once to search back to the beginning of the current track, twice to search back to the beginning of the previous track, and so forth.
Play starts at the beginning of the displayed track number.

English

Disc Control Function

CD / Disc changer operations with the buttons



Fast Forwarding and Reversing Disc Play

Fast Forwarding Disc Play:
Hold down on the ►►| button.
Release your finger to play the disc at that point.

Reversing Disc Play:
Hold down on the |◄◄ button.
Release your finger to play the disc at the point.

Eject

Press the ▲ button located near the CD slot.
The CD stops playing and ejects from the CD slot.

NOTE

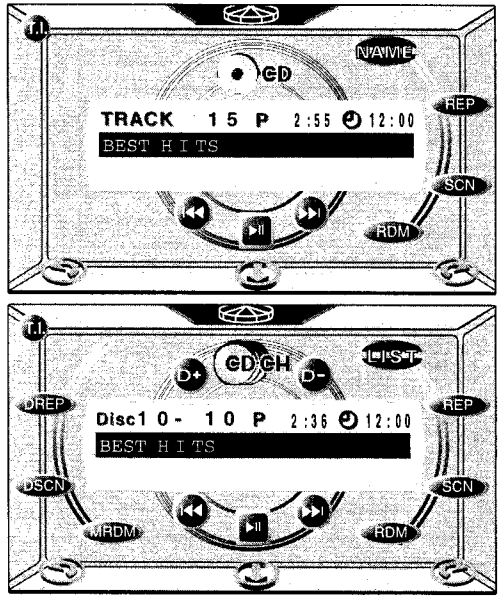
When you load a CD and eject it right away, the next time you try to insert the CD may not load. In such a situation, take the CD out for a moment and then reinsert it.

Disc Search (Function of disc changers)

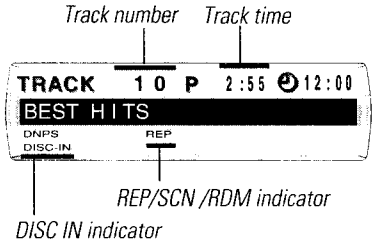
Making a Forward Disc Search:
Presse the DISC+ button to display the desired disc number.
Each time the button is pressed, the displayed disc number increases by one.

Making a Reverse Disc Search:
Presse the DISC– button to display the desired disc number.
Each time the button is pressed, the displayed disc number decreases by one.

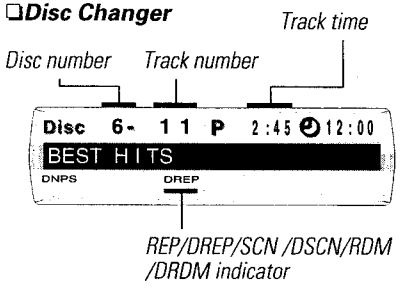
CD/Disc changer operations with the control screens



❑***CD Player***



❑***Disc Changer***



Pausing and Restarting CD Play

Touch the [►II] to make the disc pause.
Touch the [►II] again to start play again.

NOTE

(For disc changer)
When one disc has finished playing its last track, the next disc in the changer starts playing. When the last disc in the changer has finished, the player returns to the first disc and starts playing it.

Track Search

Search forwards or backwards through the tracks on the disc until you reach the one that you want to listen to.

Making a Forward Track Search:

Touch the [►►I] to display the desired track number.
Touch once to fast forward to the next track, twice to fast forward to the track after that, and so forth.
Play starts at the beginning of the displayed track number.

Making a Reverse Track Search:

Touch the [I◄◄] to display the desired track number.
Touch once to search back to the beginning of the current track, twice to search back to the beginning of the previous track, and so forth.
Play starts at the beginning of the displayed track number.

Fast Forwarding and Reversing Disc Play

Fast Forwarding Disc Play:

Hold down on the [►►I].
Release your finger to play the disc at that point.

Fast Reversing Disc Play:

Hold down on the [I◄◄].
Release your finger to play the disc at the point.

Disc Search (Function of disc changers)

Search forwards or backwards through the discs in a disc changer until you reach the one that you want to listen to.

Making a Forward Disc Search:

Touch the [D +] to display the desired disc number.
Each time the [D +] is touched, the displayed disc number increases by one.
Play starts at the beginning of the displayed disc.

Making a Reverse Disc Search:

Touch the [D —] to display the desired disc number.
Each time the [D —] is touched, the displayed disc number decreases by one.
Play starts at the beginning of the displayed disc.

NOTE

"LOAD" is displayed when discs are being exchanged on the disc changer.

Track Repeat Function

Repeat playing the current track.

Turning Repeat Play Function On/Off:

Touch the [REP] to switch the repeat play function on and off.
The REP indicator is displayed when the repeat play function is turned on.

NOTE

The repeat play function is cancelled when you stop playing the disc.

Disc Repeat Function (Function of disc changers)

Repeat playing the current disc.

Turning Repeat Play Function On/Off:

Touch the [DREP] to switch the repeat play function on and off.
The DREP indicator is displayed when the repeat play function is turned on.

NOTE

The repeat play function is cancelled when you stop playing the disc.

English

Disc Control Function

Track Scan Function

Successively play the beginning of each track on a disc until you find the track that you want to listen to.

Turning Track Scan Function On/Off:

Touch the [SCN] to switch the track scan function on and off.
The SCN indicator is displayed when the track scan function is turned on.
The first 10 seconds of each track are played, and the tracks are played in order.

Stopping to Listen to the Track Being Scanned:

Touch the [►II] or [SCN] again to stop the scan and keep on listening to a track normally.

NOTE

- The track scan function is cancelled when you stop playing a disc.
- The track scan function only scans each track on a disc once.

Disc Scan Function (Function of disc changers)

Successively play the beginning of each disc on a changer until you find the one that you want to listen to.

Turning Disc Scan Function On/Off:

Touch the [DSCN] to switch the disc scan function on and off.
The DSCN indicator is displayed when the scan function is turned on.
The first 10 seconds of each disc are played, in the order in which they are loaded on the changer.

Stopping to Listen to the Disc Being Scanned:

Touch the [►II] or [DSCN] again to stop the scan and keep on listening to the disc normally.

NOTE

- The disc scan function is cancelled when you stop playing a disc.
- The disc scan function only scans each disc on the changer once.
- "LOAD" is displayed when discs are being exchanged on the disc changer.

Random Play Function

Play all the tracks on the current disc in random order.

1 Touch the [RDM] to switch the random play function on and off.
The RDM indicator is displayed when the random play function is turned on.
The display of the track number changes continuously as the next track is being selected.
When the track has been selected, play starts.

2 To change the track being heard, touch the [►►I].
Another track is selected and played.

NOTE

The random play function is cancelled when you stop playing a disc.

Magazine Random Play Function (Function of disc changers)

Play the tracks on all the discs in the disc changer in random order.

1 Touch the [MRDM] to switch the magazine random play function on and off.
The MRDM indicator is displayed when the magazine random play function is turned on.
The display of the disc and track numbers change continuously as the next track is being selected.
When the disc/track has been selected, play starts.

2 To change the track being heard, touch the [►►I].
Another disc/track is selected and played.

NOTE

- The magazine random play function is cancelled when you stop playing a disc.
- The time needed for random selection depends on the number of discs loaded in the disc magazine.

Switching Name Set Screen

(CD player only for selecting on the control screen)

Touch the [NAME] for at least two seconds to switch the name set screen.

Disc List Screen (Function of disc chagers)

Switching Disc List Screen:

Touch the [LIST] to switch the disc list screen.

Changing Disc7-10 Lists :

Each time you touch the [▼] or [▲], the disc lists switches between the disc1-6 and disc 7-10.

Selecting List:

Touch the number [① - ⑩] for the desired disc. The number of the changed disc is displayed.

Switching Disc Title:

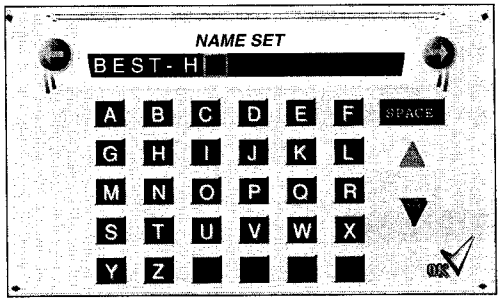
Touch the " Title " to change disc title and disc name in the lists.

Switching Name Set Screen:

1. Touch the number [① - ⑩] for the desired disc. The number of the changed disc is displayed.
2. Touch the [NAME] for at least two seconds to switch the name set screen.

Returning Source Control Screen:

Touch the [RTN] to return the source control screen (B).



Disc Name Preset (DNPS)

1. If the cursor is in the desired character input position, go on to step 4. If not, touch either the [⬅] or [➡] to move the cursor to the desired position.
   The [⬅] moves the cursor to the left and the [➡] moves it to the right.
2. Touch the [▼] or [▲] to switch the character lists.
3. Touch the character.
4. Continue steps 1 and 3 until all the characters are chosen for the name.

NOTE

- You can enter up to 16 characters for each name.
- To enter a space, touch [SPACE]. A blank is inserted and the cursor moves to the right.

5. Touch the [OK] to finish name entry and leave name preset mode.

NOTE

- You can only store names for up to 100 CDs. If you store the name for an 101th CD, the first one will be erased automatically.
- CDs are identified by their total length and number of tracks. If you play another CD that happens to have exactly the same specifications as another CD whose name is stored, the wrong name will be displayed for it.

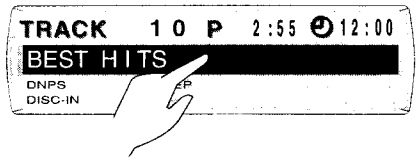
Disc Control Function

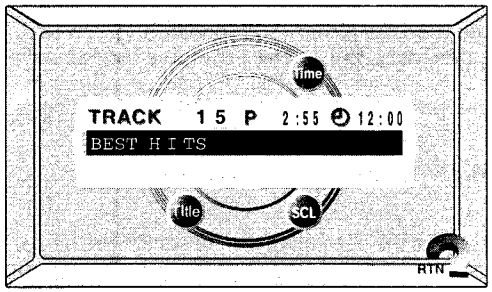
Display Select Screen

Switch the display that appears whilst discs are playing.

Switching Display Select Screen:

Touch this area on the source control screen to switch the selecting display screen.





Selecting Time Display for Discs:

Each time you touch the [Time], the display during disc play switches as follows.

P : Elapsed time of track being played.
▼
A : Elapsed time of entire disc.
▼
R : Remaining time of entire disc.

Selecting Name or Title Display for Discs:

Each time you touch the [Title], the display during disc play switches as follows.

Disc name (DNPS)
▼
Disc title (CD text)
▼
Track title (CD text)

NOTE

- You can give names to discs through the presetting disc name function.
- If you try to display the name of a disc that does not have one, "No Name" is displayed instead.
- If you try to display the title of a disc that does not have one, "No Text" is displayed instead.

To Scroll Manually:

Touch the " SCL " to display the disc title or the track title. The titles will be displayed in one scrolling display.

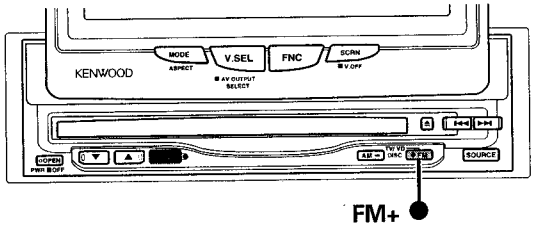
- When the system setting screen's scroll setting is set to "ON", touch [SCL] on the scroll table to stop scrolling. Touch [SCL] again to resume scrolling.
- When touched while the system setting screen's scroll setting is set to "OFF", the entire text is scrolled once.

Canceling Display Select Screen:

Touch the [RTN] to return the source control screen .

Video Control Function

Video operations with the buttons



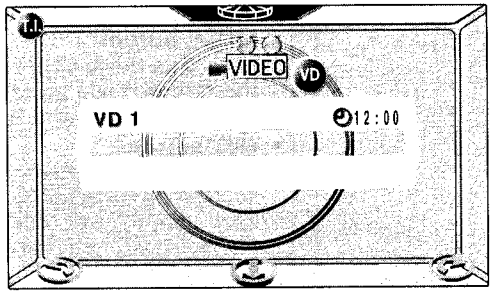
Selecting Video

Press the FM+ button, the video input to switch the Video1 and Video2.

Video operations with the control screens

Selecting Video

Touch the [VD], the video input to switch the Video1 and Video2.



English

Remote Control Function

Basic Source Control Function

- **SRC button**
  Each time you press the SRC button, the source mode switches as follows:

  Tuner mode
  ▼
  CD mode
  ▼
  Disc changer mode
  ▼
  Video mode
  ▼
  Standby mode

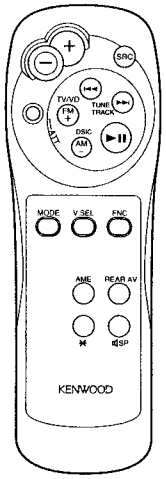
NOTE

- The mode switches to the next mode from any mode which cannot be used.
- The tuner mode ,disc changer mode and navigation modewill differ depending on the unit that is connected.

- **VOLUME buttons**
  Press the ⊕ button to increase the volume.
  Press the ⊖ button to decrease the volume.
- **ATT button**
  Turn down the volume quickly. To return the volume to its original level, press the button again.

Visual Function

- **V.SEL button**
  Each time the V.SEL button is pressed, the image video will switch between the navigation and video.
- **MODE button**
  Each time the MODE button is pressed, the screen mode switches between the normal, full, just, and zoom.
- **FNC button**
  Press the FNC button to switch the source control screen.
  Each time the FNC button is pressed, the back picture in the source control screen changes.
- **REAR AV button**
  Each time the REAR AV button is pressed, the AV output mode switches between the normal video 1 and video 2.



Tuner Control Function

- **►II button**
  Each time the ►II button to the tuning mode switches to auto 1, to auto 2 and manual.
- **TUNE buttons**
  Press the I◄◄ button to make decreasing seeks (using the auto seek tuning mode).
  Press the ►►I button to make increasing seeks (using the auto seek tuning mode).
- **FM button**
  Select and switch between the FM1, FM2 and FM3 bands.
- **AM button**
  Select the MW and LW bands.

Disc Control Function

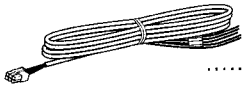
- **►II buttons**
  Press the ►II button to make the disc pause.
  Press the ►II button to start play again.
- **TRACK buttons**
  Press the I◄◄ button to search through the tracks backwards.
  Press the ►►I button to search through the tracks forwards.
- **DISC buttons**
  Press the AM− button to search through the discs backwards.
  Press the FM+ button to search through the discs forwards.

NOTE

- The "AME" and "SP" buttons cannot be used.
- When the "*" button is pressed, the panel of a Kenwood audio system equipped with powered panel can be operated.

Accessories

External view ..... Number of items

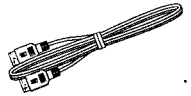
①  1

② 2

③ 4

④ 4

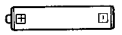
⑤ 2

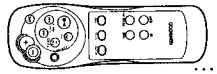
⑥  1

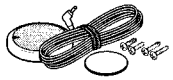
External view ..... Number of items

⑦ 1

⑧ 2

⑨  2

⑩  1

⑪  1

⚠CAUTION

The use of any accessories except for those provided might result in damage to the unit. Make sure only to use the accessories shipped with the unit, as shown above.

Installation Procedure

1. To prevent short circuits, remove the key from the ignition and disconnect the ⊖ terminal of the battery.
2. Make the proper input and output cable connections for each unit.
3. Connect the wiring harness cables in the following order: ground, battery, ignition.
4. Connect the wiring harness connector to the unit.
5. Install the unit in your car.
6. Reconnect the ⊖ terminal of the battery.
7. Press the reset button.(See p. 2)

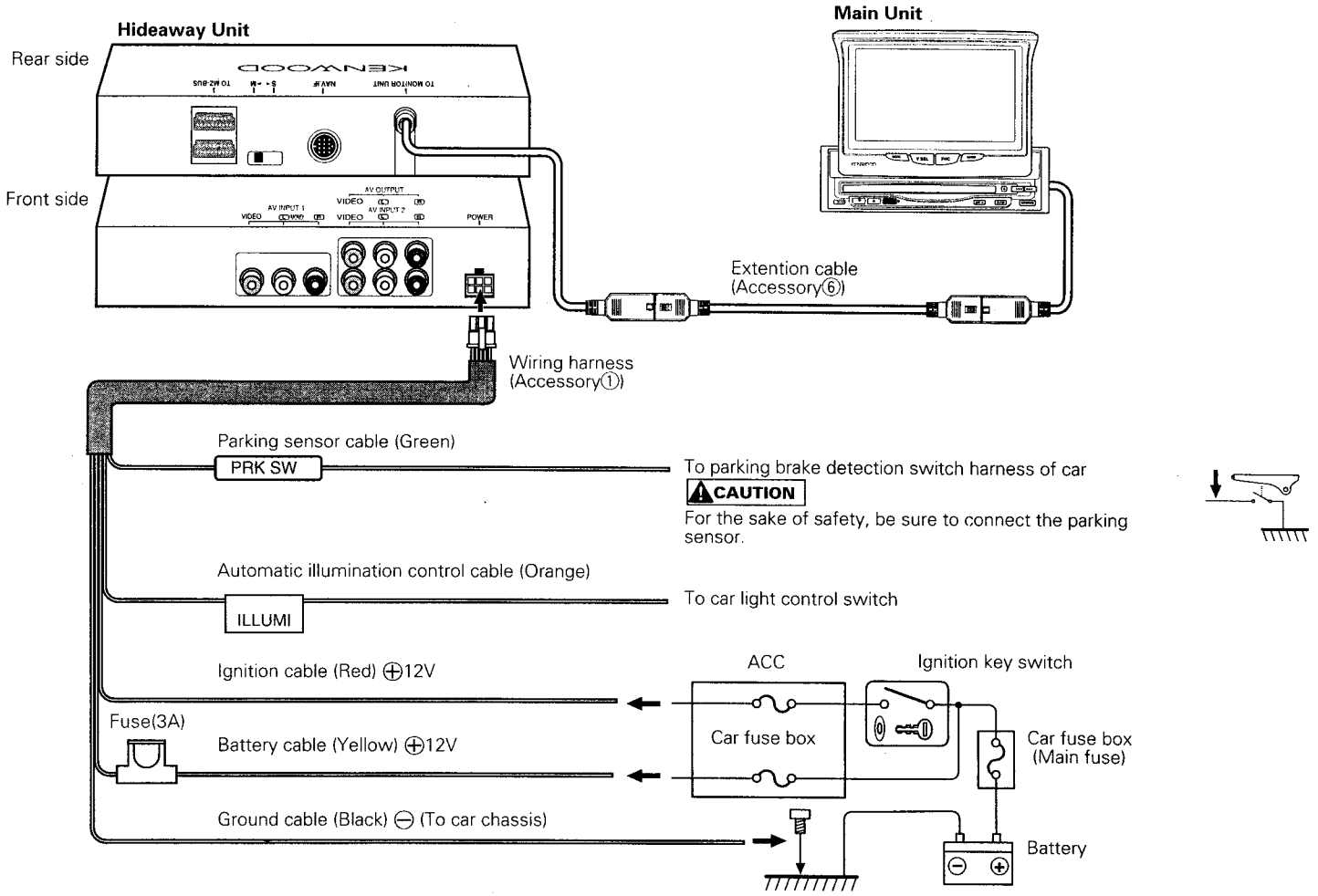
⚠CAUTION

- If your car's ignition does not come with an ACC position, connect the ignition cables to a power source that can be turned on and off with the ignition key. If you connect the ignition cable to a power source that receives a constant voltage supply, as with battery cables, the battery may die.
- If the fuse blows, first make sure that the cables have not caused a short circuit, then replace the old fuse with one with the same rating.
- Do not let unconnected cables or terminals touch metal on the car or anything else conducting electricity. To prevent short circuits do not remove the caps from unused terminals or from the ends of the unconnected cables.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Insulate unconnected wires with vinyl tape or other similar material.
- Thoroughly wipe away oil and other dirt from the installation surface.
  Please avoid installation on uneven surfaces.
- Mount the unit so that the mounting angle is 30° or less.

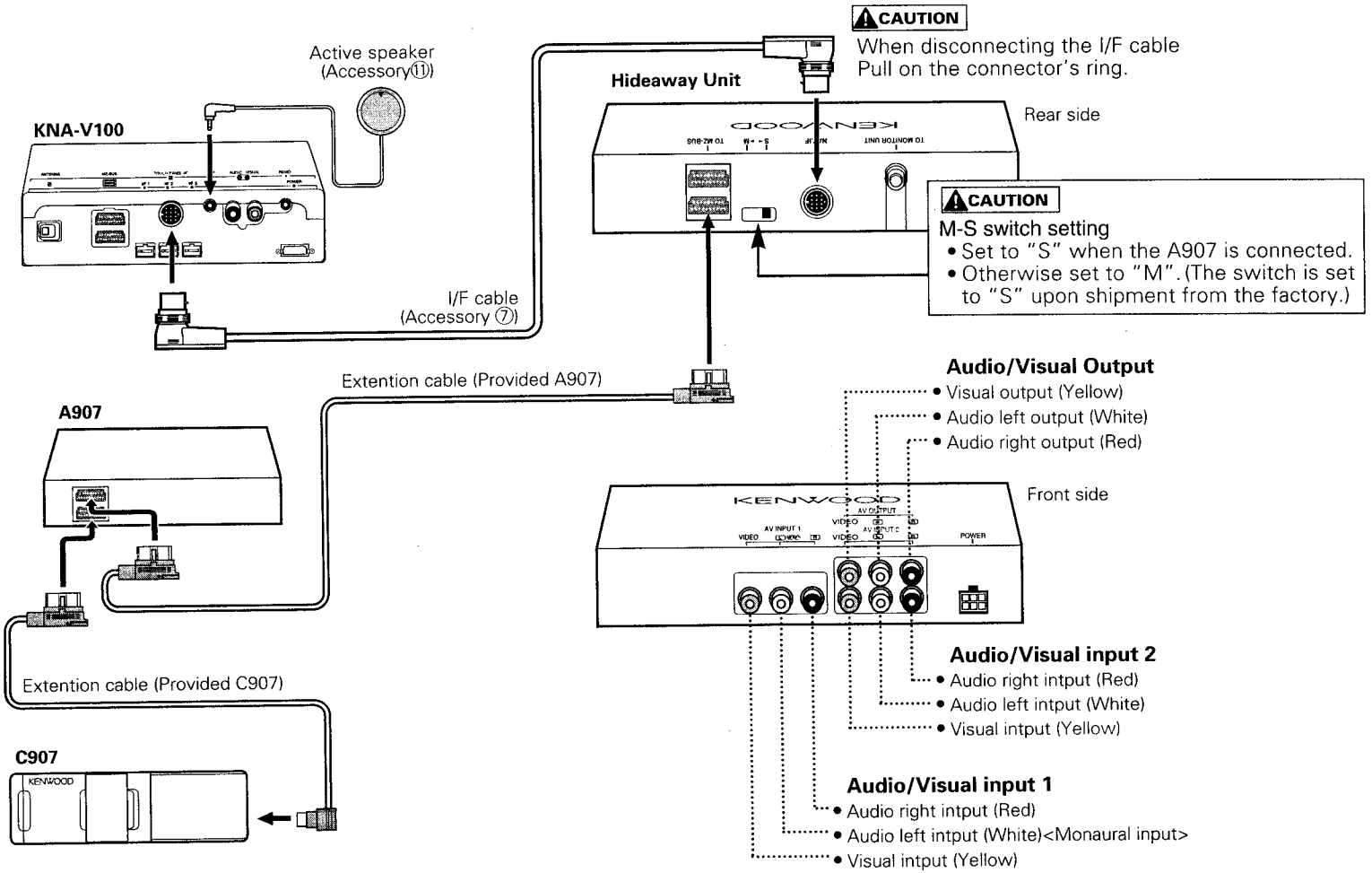
Installation

Connecting Cables to Terminals

■ Connection for Power Cable



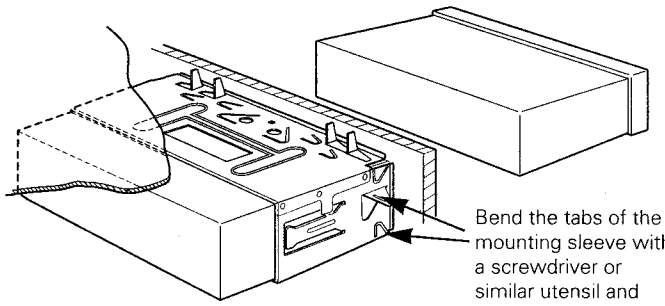
■ *Connection to Other Units*



English

Installation

■ Installation for Main Unit



⚠CAUTION

When mounting the main unit after checking the operation, close the monitor first.

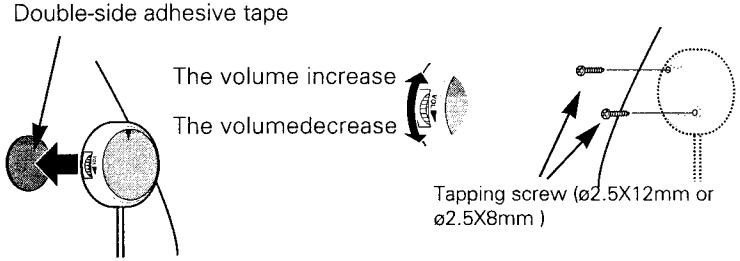
NOTE

Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).

■ Installation for Active Speaker (Accessory⑪)

(for the navigation unit KNA-V100).

- Use the double-side adhesive tape
- Use the tapping screw

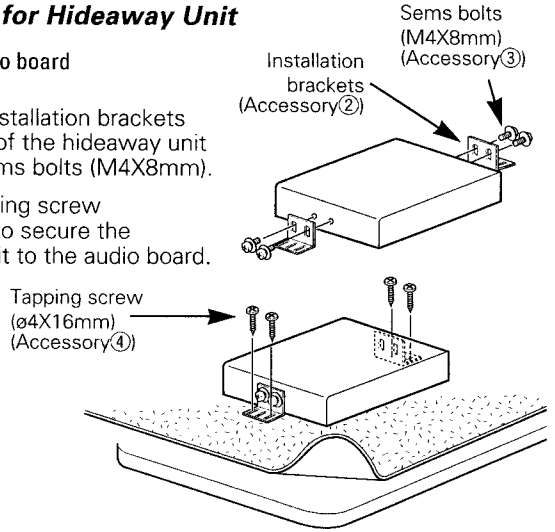


■ Installation for Hideaway Unit

- Securing to audio board

1 Attach the installation brackets to the sides of the hideaway unit using the sems bolts (M4X8mm).

2 Use the tapping screw (ø4X16mm) to secure the hideaway unit to the audio board.

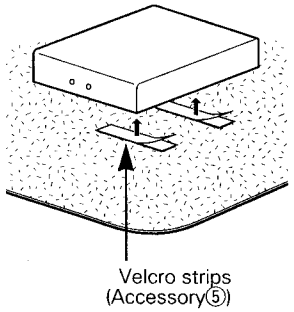


- Securing to pile carpet

Peel the protective strips off of the velcro strips, attach them to the bottom of the hideaway unit, and secure to the pile carpet.

⚠CAUTION

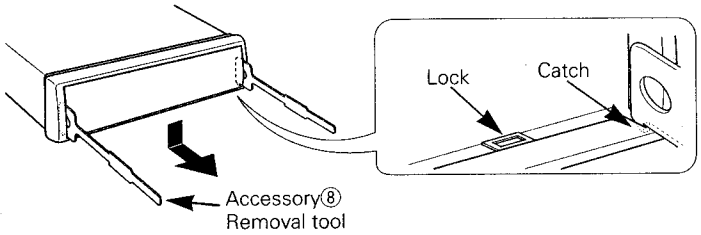
Please do not install the unit near the dashboard, the rear tray, or other important components. Doing so could lead to injury or accident should the unit come off due to a shock and strike a person or an important component. Tapping screws should be used for mounting. (Attachment with velcro strips, although easy, can come off with a shock.)



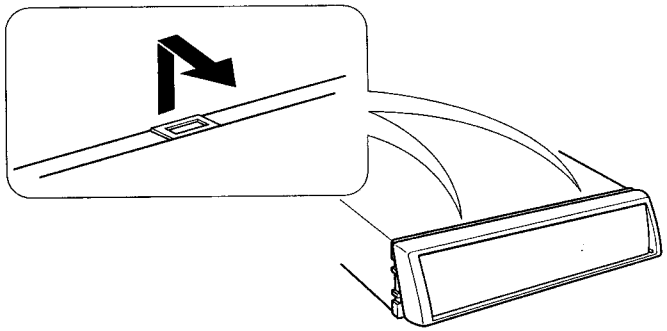
Removing Unit

■ *Removing the Hard Rubber Frame*

1 Engage the catch pins on the removal tool and remove the two locks on the lower level.
Lower the frame and pull it forward as shown in the figure.



2 When the lower level is removed, remove the upper two locations.



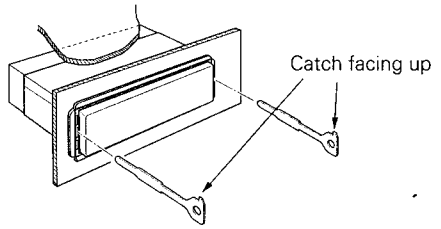
NOTE

The frame can be removed from the top side in the same manner.

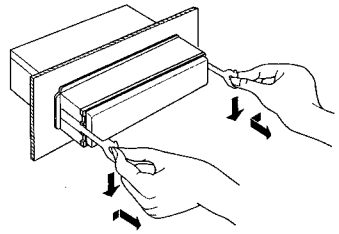
■ *Removing the Unit*

1 Refer to the section "Removing the Hard Rubber Frame" and then remove the hard rubber frame.

2 Insert the two removal tools deeply into the slots on each side, as shown.



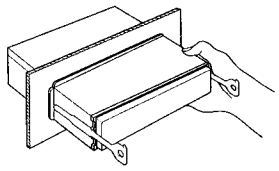
3 Lower the removal tool toward the bottom, and pull out the unit halfway whilst pressing towards the inside.



⚠CAUTION

Be careful to avoid injury from the catch pins on the removal tool.

4 Pull the unit all the way out with your hands, being careful not to drop it.



English

Troubleshooting Guide

What might appear to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The power does not turn on.	The fuse has blown.	After checking for short circuits in the cables, replace the fuse with one having the same rating.
	No ACC position on vehicle ignition.	Connect the same cable to the ignition as the battery cable.
Nothing happens when the buttons are pressed.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see page 4).
The monitor does not open.	The parking brake is not engaged.	For safety reasons, the monitor does not open while the vehicle is moving. Engaging the parking brake.
No video image appears.	The unit is not connected to the parking brake detection switch.	Make proper connections according to "Connections" (See p. 29).
	The parking brake is not engaged.	For safety reasons no video images are displayed while the vehicle is moving. Engaging the parking brake will cause images to be displayed.
The screen is dark.	The unit is in a location where temperature is low.	If the temperature of the monitor unit drops, the screen may appear darker when power is first turned on due to the characteristics of a liquid crystal panel. Wait a while after turning power on for the temperature to rise. Normal brightness will return.
A CD ejects as soon as it is loaded.	The CD is upside-down.	Load the CD with the labelled side up.
	The CD is quite dirty.	Clean the CD, referring to the section on "Cleaning CDs" (See p. 4).
The sound skips on a CD.	The CD is scratched or dirty.	Clean the CD, referring to the section on "Cleaning CDs" (See p. 4).
The specified track does not play.	Random play has been selected.	Turn off the random play function.

Specifications

Specifications subject to change without notice.

Main Unit

Picture size	5,8 inches wide 124,8(W) X 73(H) X 144,6 (diagonal) mm
Display system	Transparent TN LCD panel
Drive system	TFT active matrix system
Number of pixels	280.800 pixels (480 H X 234 V X RGB)
Effective pixels	99,99%
Pixel arrangement	RGB striped arrangement
Back lighting	Cold cathode tube

Hideaway Unit

Colour system (Video)	NTSC/PAL
External video input level (RCA jacks)	1 Vp-p/75 Ohms
External audio max. input level (RCA jacks)	1 V/22 K Ohms
Video output level (RCA jacks)	1 Vp-p/75 Ohms
Audio output level (RCA jacks)	500 mV/1K Ohms

CD player section

Laser diode	GaAlAs (λ=780 nm)
Digital filter (D/A)	8 Times Over Sampling
D/A Converter	1 Bit
Spindle speed	500 – 200 rpm (CLV)
Wow & Flutter	Below Measurable Limit
Frequency response (±1 dB)	5 Hz – 20 kHz
Total harmonic distortion (1 kHz)	0,01 %
Signal to Noise ratio	93 dB (1 kHz)
Dynamic range	93 dB
Channel separation	85 dB

General

Operating voltage	14,4 V DC (11 to 16 V)
Consumed current	1.5 A (1.0 A during normal operations)
Operational temperature range	–10°C to +60°C
Storage temperature range	–20°C to +85°C
Size	
Main unit	180(W) × 50(H) × 182(D) mm 7-1/16 × 1-15/16 × 7-3/16 inch
Hideaway unit	213(W) × 40(H) × 148(D) mm 8-3/8 × 1-9/16 × 5-13/16 inch
Installation size <Main unit>	178(W) × 50(H) × 165(D) mm 7 × 1-15/16 × 6-1/2 inch
Weight	
Main unit	2,0 kg(4.4 LBS)
Hideaway unit	0,9 kg(2 LBS)

Although the effective pixels for the liquid crystal panel is given as 99,99% or more, 0,01% of pixels may not light or may light incorrectly.

English